

ABSTRACT OF THE DISCLOSURE

A semiconductor memory device comprising control pads and input/output I/O pads capable of reducing the data path for reading and writing data in a cell array, and a method for driving the semiconductor memory device are included. The semiconductor memory device comprises a plurality of memory banks arranged at a cell region of a memory chip, and a plurality of control pads and a plurality of I/O pads, separately arranged from each other at the memory chip, for reading/writing data from/in the memory banks, wherein the plurality of control pads and I/O pads are dispersed at the peripheral region between adjacent memory banks and at the outer portions of the memory banks.